

Cork Board

Few materials are as versatile or stable as cork. That fact results from the way in which cork cells combine with one another to form a dense mat of microscopic air-filled "bubbles" (about 40 million per cm3), the walls of which are highly resistant to the elements, and which are, bound together by a natural "super glue" called suberin. Cork board is a 100% natural material made from

the bark of cork oak. After being granulate it is superheated and compacted into blocks, using suberin alone to bond the granules, resulting in a material with unique and natural characteristics.

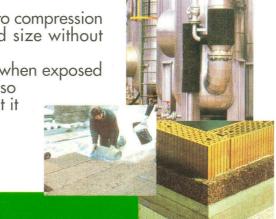
Unique thermal-insulation, anti-vibration and soundproofing properties

Cork board performs extremely well when subject to compression and bending. The material retains its form and size without suffering fatigue.

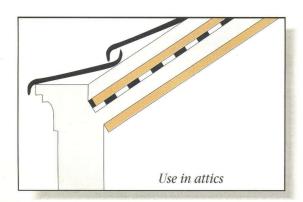
Because it is chemically neutral it is not damaged when exposed to UV radiation, nor does it attract mould. It is also

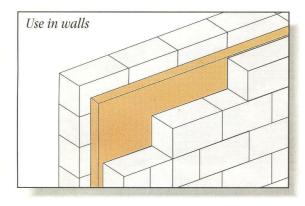
resistant to hydrocarbon action, which means that it

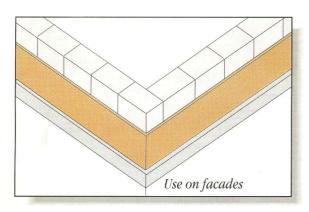
is compatible with hot bitumen.











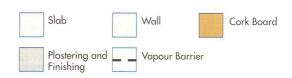
Thermal insulation • Cork Board does not conduct electricity, has a very low level of flammability, and does not release chlorine or cyanide when exposed to fire, making it an excellent form of thermal insulation for industry and the home.

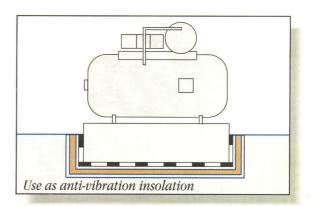
Anti-vibration • Insulation against vibration from industrial machinery, a range of board densities being available to suit every situation.

Soundproofing • The characteristics of the raw materials combined with its density make cork board an excellent product for acoustic absorption, insulation from airborne noise and acoustic insulation from percussion noise.

Benefits

Ecological
Versatile
Safe
Easy to use
Unlimited life span
Energy-saving







Technical features of cork board

Weight by volume

Thermal conductivity (20°C)

Normal tensile strength on plane of sheet

Bending strength

Compression strength

Compression limit

Deformation at 10% compression DIN 18161 Part 1

Specific heat

Vapour and water diffusion resistance

Working temperature

Dynamic rigidity (for 50mm thickness)

Modulus of elasticity

Vapour conductivity

Thermal expansion coefficient (20° C)

Dimensional stability

Does not disintegrate in boiling water (3-hour test)

Size of sheets

approx. 120 Kg/m3

0,040 W/mk

0,94 Kg/cm2

1,8 Kg/cm2

0,2 Kg/cm2

1Kg/cm2

1,78 Kg/cm2

1,67 Kj/Kg °C

u5-30

-200 °C to 130° C

126 N/cm3

5N/mm2

0,017-0,003 g/mh mm section

25 a 50 x 10⁻⁶

stable, does not expand or shrink

1000 x 500 mm with thicknesses of between

10 and 320 mm

Thermal insulation figures for cork board (R in m2 kW and k in W/m2k)

Thickness	10 mm	20 mm	30 mm	40 mm	50 mm	60 mm	70 mm	80 mm	90 mm	100 mm
R	0,244	0,488	0,732	0,976	1,220	1,463	1,707	1,951	2,195	2,439
k	2,439	1,529	1,114	0,876	0,722	0,614	0,534	0,472	0,424	0,384

For more information about Cork Board, its technical specifications and use, please contact our technical department:

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